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Shelia L. Alexander
Shelia L. Alexander

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Fiedler *et al.*

Group Art Unit: 1631

Serial No.: 10/030,605

Examiner: Michael L. Borin

Filed: May 31, 2002

Docket No. 1406/37

Confirmation No.: 8368

For: FABRICATION OF BETA-PLEATED SHEET PROTEINS WITH SPECIFIC
BINDING PROPERTIES

DECLARATION OF ULRIKE FIEDLER
PURSUANT TO 37 C.F.R. §1.132

Commissioner of Patents
Washington, D.C. 20231

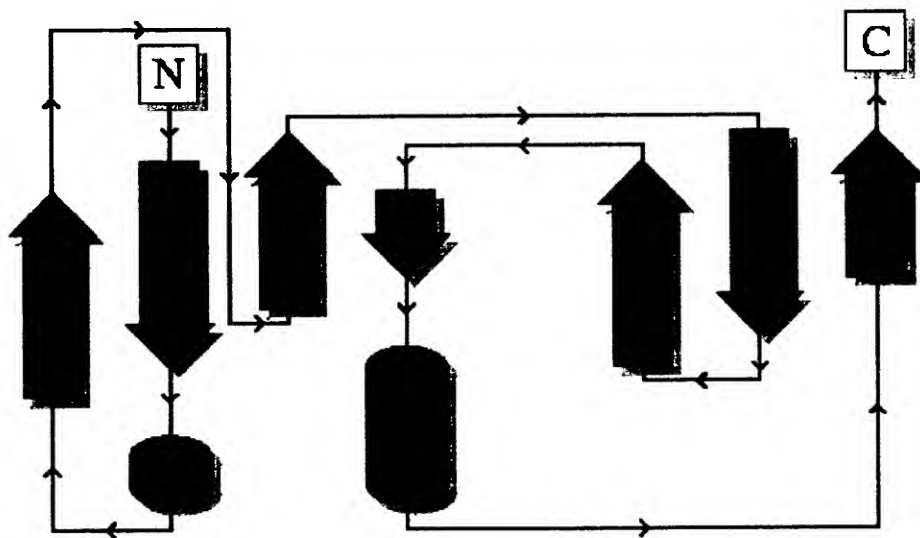
Sir:

1. My name is Ulrike Fiedler, and I am a co-inventor of the subject matter disclosed and claimed in the above captioned U.S. Patent Application Serial No. 10/030,605.

2. I have had an opportunity to review pending claims 1, 5-12, 14-16, 26-28, 42, and 46 in the above captioned U.S. Patent Application Serial No. 10/030,605.

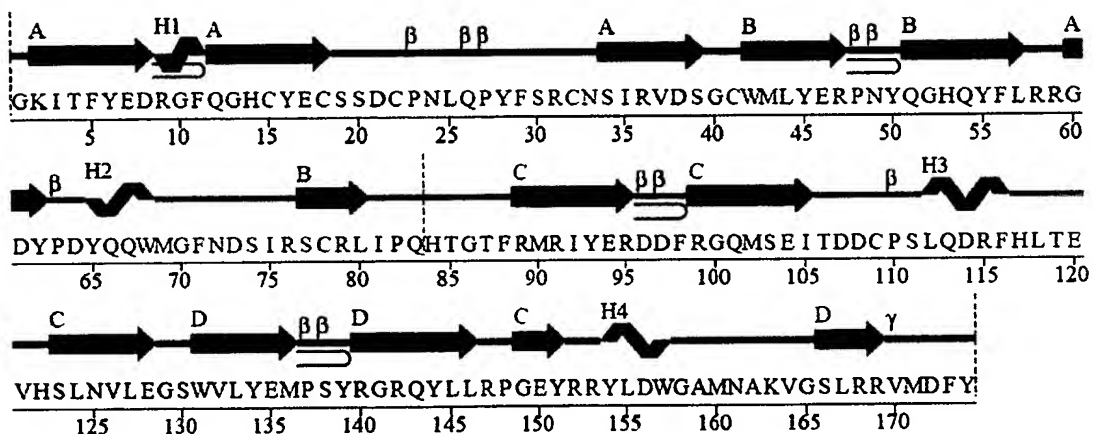
3. I have also reviewed the following documents: the Final Official Action issued April 12, 2006 on the above captioned U.S. Patent Application Serial No. 10/030,605.

4. In accordance with the example at page 17, second and third paragraphs, of the above captioned U.S. Patent Application Serial No. 10/030,605 and as shown in Scheme A below, 8 amino acids were selected located at positions 2, 4, 6, 15, 17, 19, 36 and 38, respectively, of the gamma-crystallin sequence below. The location of these 8 residues can be seen in Scheme A, which depicts the N-terminal domain of the gamma-crystallin sequence. The figures represent the positions of the amino acids; N is the N-terminus, and C the C-terminus. Each arrow represents a beta-strand, indicating that 2 to 3 randomized residues are within one beta-strand: 3 residues in strand 1; 3 residues in strand 2; and 2 residues in strand 3.



Scheme A

5. Scheme B shows the position of the 8 randomized residues in the beta-strands and the beta-sheets. The capital red letters (A, B, C, D) represent beta-sheets, and each arrow a beta-strand. Exhibit B shows that gamma-crystallin includes a total of 4 beta-sheets (A, B, C and D), each two beta-sheets per domain. Sheet A includes 4 beta-strands, and Scheme B shows that all randomized positions as indicated above are located within beta-sheet A and are located in 3 beta-strands.



Scheme B

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Ulrike Fiedler
Ulrike Fiedler

08 09 2006
Date